

REMARKS

Claims 1-20 are presently pending. In response to the Office Action dated January 15, 2003, subjecting Claims 1 - 20 to a restriction or election requirement, Applicant hereby elects the invention of Group I.

In addition, in response to the request for the selection of a patentably distinct species, Applicant hereby selects the fluid cleaning system species of Fig. 3 (Species F2) and the evaporation surface species of Fig. 10 (Species E3) for prosecution.

The above-referenced Office Action lists evaporation surface species E1-E4 as corresponding to Figs. 2-5, respectively. However, species E1-E4 should correspond to Figs. 8-11, respectively.

~~Claims 12 and 13 were amended and now read upon the elected species. Claims 21 and 22 are relatively generic claims. The claims readable upon the elected species (F2 and/or E3) are Claims 1-15 and Claims 21 and 22.~~

The present Application is believed to be in proper form for allowance. Accordingly, allowance, and passage to issue are respectfully requested.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on February 17, 2003.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE
IN ACCORDANCE WITH 37 CFR 1.121(b)(1)(iii)

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IN THE CLAIMS

12. (Amended) An efficient fluid cleaning system comprising:

first means for changing the pressure of a fluid from a first pressure to a second pressure, said second pressure lower than said first pressure and sufficient to cause cavitation of contaminants in said fluid and

second means for distributing said fluid within an evaporation chamber at said second pressure [via one or more capillary channels] to facilitate evaporation of contaminants within said fluid.

13. (Amended) The system of Claim 12 wherein said evaporation chamber includes an evaporation surface that is at least partially surrounded by [both] an electromagnetic coil and [a mesh for increasing the rate of evaporation of contaminants from said evaporation surface area of said evaporation chamber] one or more spiral capillary channels.

--21. An efficient fluid cleaning system comprising:

a housing having a filter disposed therein;

an inlet opening into a first space in said housing between said inlet and said filter to facilitate distribution of fluid, at a first pressure, about one or more input surfaces of said filter;

an evaporation chamber exposed to a second pressure lower than said first pressure, said evaporation chamber partially surrounded by an output surface of said filter;

means for expanding an evaporative surface area of said evaporation chamber over that of a substantially flat surface; and

an outlet in communication with said evaporation chamber and positioned in a base of said housing.--

--22. An efficient fluid cleaning system comprising:

first means for removing solid mater from said fluid and

second means for facilitating vaporizing certain liquids and/or gases in said fluid by squirting or splashing said fluid in an evaporation chamber to increase exposed surface area of said fluid in said evaporation chamber.--
